

Date: Thu, 14 Jul 94 04:30:32 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #193
To: Ham-Homebrew

Ham-Homebrew Digest Thu, 14 Jul 94 Volume 94 : Issue 193

Today's Topics:

 'Who was that masked capacitor?'
 Avatar Magnetics belly up?
 Crowbar circuit needed
 HELP with air variable cap connections
 Plessey SL6440 mixer source
 Poor Man's Packet?

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 13 Jul 1994 02:16:14 GMT
From: newsflash.concordia.ca!CC.UMontreal.CA!poly-vlsi!nick@uunet.uu.net
Subject: 'Who was that masked capacitor?'
To: ham-homebrew@ucsd.edu

In article <Csu18L.I72@ac.tandem.com> a-rickf@ac.Tandem.com writes:
>In article 0017A12F@hookup.net, tallath@hookup.net (Gordon R Beatty) writes:
>> ... I'm searching for what has been coined as a 'piston trimmer'
>> capacitor. From what I know it is a variable capacitor.
>
>stuff deleted
>
>A piston trimmer capacitor physically looks like an insulative tube with an
>electrode on the outside (plated or foil wrapped) and an adjustable element
>that looks like a slug that slides in and out of the tube. The amount of
>capacitance, as you might guess, varies relative to the amount of the two
>conductive parts that are adjacent to one another (overlap?). Works just like

>any other variable cap, but normally uses the tube as dielectric instead of
>air (standard rotary variable) or air and mylar insulator (compression trimmer)
>
>They used to be available from Allied, etc (years ago), and at all the surplus
>places. I haven't seen one in years, but that doesn't mean they're not still
>available, just that I've not been looking for any. Typical size of the ones

more stuff killed...

Most of the inexpensive (read *cheap*) piston trimmers are manufactured as
the above paragraph describes. The -good- piston trimmers are usually made
of hi Q ceramic or Sapphire dielectric and the plates are usually concentric
circular that mesh as you turn the adjustment control (usually a standard
flat slot). These caps are available in ranges from as little as 0.5pF to
about 40pF or so. These caps are used in microwave circuits and are also
found in circuits that require stable temperature/mechanical characteristics
you would need in a VCO or filter. There are several manufacturers that
have these caps as stock items; Johanson (probably the most popular), Voltronics
another and Sprague-Goodman are just a few off the top of my head. I know
there are at least a few more manufacturers that offer these caps as stock
items. Prices range from as low as \$5 to as high as \$25.

Nick

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*****
*      Nick Ciarallo                                     *
*      SR Telecom Inc.           telephone: 514-335-2429   ex: 438      *
*      Microwave Group          facsimile: 514-334-7783     *
*      8150 Trans Canada Hwy     internet : nick@vlsi.polymtl.ca      *
*      St. Laurent, Quebec       hamradio : ve2hot@ve2fkb.pq.can.na    *
*      Canada H4S-1M5                                     *
*****
*      Accept no substitutes, *REAL* ham radio lives on 220 MHz!      *
*****
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Date: 13 Jul 94 02:22:37 -0800
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!admvax.sonoma.edu!
harrisok@network.ucsd.edu
Subject: Avatar Magnetics belly up?
To: ham-homebrew@ucsd.edu

I was just going through an old ARRL Handbook ('86) and came upon an
interesting article about a 30 amp 13.8v power supply that I thought I might try
to build. I thought I would see if the listed manufacturers still made the
parts.

The power transformer is a 117v. primary / 25.4vct secondary @ 34 amps (AV-399 by Avatar Magnetics in Indianapolis, IN) I decided this would be a good place to start and attempted to locate their phone number through directory assistance. No luck. I guess Avatar Magnetics has gone belly up?

Back to the drawing board I guess--

Ken Harrison

N6MHG

email: harrisok@sonoma.edu

Date: 13 Jul 1994 11:30:03 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: Crowbar circuit needed
To: ham-homebrew@ucsd.edu

Anybody know where I can find a simple crowbar circuit for a 12 volt 10 amp supply. Any information would be greatly appreciated.

Thanks Gene

Date: 13 Jul 1994 16:44:55 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!rkarlqu@network.ucsd.edu
Subject: HELP with air variable cap connections
To: ham-homebrew@ucsd.edu

In article <1994Jul12.164519.1@csusys.ctstateu.edu>,
<white@csusys.ctstateu.edu> wrote:

>
>I have a Millen ##20075 85pf air variable, that will serve as the
>tuning cap for the W7EL &MHz Optimized rig. There is only 1 lug
>on the cap.....and I am assuming that the connection to ground can be
>made to either of 2 posts that support the fixed (non-rotating) blades of
>the cap? Help?
>73 es much gratitude de N1QVE
>Harry
>white@csusys.ctstateu.edu
>

No, you want to connect the ungrounded end of the circuit to the posts and ground the lug. This is so the movable plates, and hence their bearing and shaft are at ground.

Rick N6RK

Date: Wed, 13 Jul 1994 16:25:46 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!
zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!ssd.intel.com!
rlt@network.ucsd.edu
Subject: Plessey SL6440 mixer source
To: ham-homebrew@ucsd.edu

Gang,
Does anybody know of a source for the Plessey SL6440
high level mixer? I've got to try this puppy out.

Thanks,

Roger Traylor
rlt@ssd.intel.com

--

Roger Traylor
rlt@ssd.intel.com
Intel Corporation - Supercomputer Systems Division
Beaverton, OR 97006

Date: Wed, 13 Jul 1994 14:14:27 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!haven.umd.edu!darwin.sura.net!fconvx.ncifcrf.gov!
mack@network.ucsd.edu
Subject: Poor Man's Packet?
To: ham-homebrew@ucsd.edu

In article <eamurashie.38@mail.beckman.com> eamurashie@mail.beckman.com (Ed
Murashie) writes:

> That
> got me hooked on learning about packet radio, which used up my
> entire weekend. Boy, did my girlfriend get mad!

>
> Thanks,
> Ed Murashie KE6FJU
The solution is to get a new girlfriend |-)

Joe Mack NA3T
mack@ncifcrf.gov

End of Ham-Homebrew Digest V94 #193
